The Crash Imminent Safety (CrIS) University Transportation Center (UTC)

Purpose

The goal of the CrIS UTC is to improve ground transportation safety through interdisciplinary research and development in the interplay of autonomous and intelligent vehicle systems, human factors, and injury biomechanics. Outreach and Engagement activities include:

1. Education, Workplace Development, and Diversity -- education programs related to ground transportation, focusing on human systems integration in pre-crash scenarios.

2. Technology Transfer and Policy -- research on policies that can support or hinder the adoption of intelligent vehicle systems.

Impact

UTC - WiE RISE Collaboration – This project familiarizes the WiE RISE participants with basic Intelligent Transportation Systems (ITS) concepts and includes hands-on experience with assembling, programming, and testing mobile ground robots that serve as surrogate vehicles.

Safety, Crashes, and Intelligent Vehicle Systems in Policy – This project looks at the policy discussions around the issues of vehicle safety, crashes, and intelligent vehicle systems (and autonomous vehicles).

It employs big data techniques on a large dataset of U.S. government policy documents from the U.S. Congress, Executive, the Judiciary, and Public Administrators.

Ohio State Colleges/Units Involved

Crash Imminent Safety (CrIS) University Transportation Center (UTC)
Department of Electrical and Computer Engineering
John Glenn School of Public Affairs

Community Partners Involved

Industry collaborators representing major automotive industries
Community partners representing diverse consumer groups

The Safety Divide – Safety features in vehicles often come from technological advancements. Companies implement technologies to comply with regulations or charge premium prices. This equates to safety being a function of the vehicle that one owns. Socio-technological implications of the adoption of different technologies in vehicles are considered through research and policy discussions.

Contact

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